

DRAFT

Mahoning County

Enterprise GIS

Digital Submittal

Acceptance Standards

Date: June 1, 2003

Mahoning County
Enterprise GIS
120 Market Street
Youngstown, Ohio 44503

All digital data must be in a format that can be readily converted into ArcInfo, mainly AutoCAD DXF, Microstation DGN and properly formatted ASCII coordinate point files. The digital data can include but not limited to construction drawings, as-builts parcel splits/plats, sewer details, etc. All submitted data must strictly adhere to the standards set forth in this document. There must be at least one layer, which will be topologically correct when, imported into ArcInfo. This means that all line segments must be a separate entity. Each line shall be broken at intersections with ending points having the same coordinate value. All line work should produce bearings and distances that match the bearing and distances on the hard copy plot.

Projection Datum

Ohio State Plane

North Zone, 3401

1983 North American Datum (NAD83)

1988 National Geodetic Vertical Datum (NGVD88)

Spheroid, GRS 1980

Geographical Extent: Northing 448,750 to 542,000 feet

Easting 2,350,00 to 2,515,000 feet

GENERAL COMMENTS

- 1.) All digital files shall contain the *Projection Datum* within the header of each file.
- 2.) All data shall be placed within the correct geographical extent and at the correct said beginning point the using the *Projection Datum* above.
- 3.) All data shall be topologically clean and built. No extraneous lines or text shall exist within the digital file.
- 4.) Metadata shall accompany each digital submittal describing the file name, date, data source, layer names/numbers, and attribute codes.

DATA ACCURACY STANDARDS

- 1.) All digital data shall meet placement standards readable at a scale of 1"= 100'.
- 2.) A grid, township or other political boundary shall not be altered. All data must match exactly the same coordinate pairs of the line being copied.
- 3.) All data shall be cleaned at a tolerance of .002 map units. No loopback, turnbacks, undershoots or overshoots.
- 4.) All line work portraying a direction shall be originated in the direction of flow.
- 5.) All prefixes or suffixes on a map or database shall follow the naming convention standards.

DATA FORMATS

The following digital format shall be acceptable for conversion into the County's GIS.

AutoCAD

Version 2000,-2004, AutoCAD Map. (DWG)

Seed file available upon request.

ArcInfo

ArcInfo Export Format. (E00)

ArcView

ArcView Shape File Format. (SHP)

Microstation

Version 95, SE, J. (DGN)

Seed file available upon request.

Digital Exchange Format

Version 2000-2004. (DXF)

Digital Imagery

Extension types: *.BIN, *.COT, *.DRG, *.DRQ, *.TIF

All raster data shall be un-tiled, uncompressed and without pyramid tiling. Coordinate Geometry files (World Files) must also be included.

MetaData

WordPerfect

Microsoft Word

Adobe Pdf

Plain Text

Html

Xml

NAMING CONVENTION STANDARDS

- 1.) No table format shall exceed fifty spaces (including blanks).
- 2.) No punctuation (primarily periods and apostrophes) will be used.
- 3.) All prefixing separate words (except for the compass directions) will be spelled out as a separate word (i.e., ST. MARY'S becomes SAINT MARYS and 1st. ST. becomes First St)
- 4.) All compass directions (N, S, E, W, NE, SE, NW, SW) can be used as either prefix or suffix.
- 5.) Public safety must use "NENA" standards for abbreviations all others will use the suffix abbreviation equivalence given below exceeding fifty spaces.

STREET SUFFIX ABBREVIATIONS

FULL WORD	ABBREVIATIONS	FULL WORD	ABBREVIATIONS
ALLEY	AL	NORTHWEST	NW
AVENUE	AVE	OVAL	OVL
BOULEVARD	BLVD	PARK	PK
BROADWAY	BWY	PARKWAY	PKWY
CENTER	CTR	PATH	PATH
CIRCLE	CIR	PLACE	PL
COURT	CT	PLAZA	PLZ
DRIVE	DR	RIDGE	RIDGE
DRIVEWAY	DRWY	ROAD	RD
EAST	E	ROUTE	RTE
EXTENSION	EXT	SOUTH	S
GARDENS	GDN	SOUTHEAST	SE
GROVE	GR	SOUTHWEST	SW
HEIGHTS	HGTS	SQUARE	SQ
HIGHWAY	HWY	STREET	ST
HILLS	HLS	TERRACE	TER
LANE	LN	TURNPIKE	TPK
LOOP	LOOP	TRAIL	TR
MALL	MALL	VILLAGE	VIL
MARKET	MKT	WALK	WK
NORTH	N	WAY	WAY
NORTHEAST	NE	WEST	W

UNIFORM COLOR CODE STANDARDS for UTILITIES

The following color scheme shall be used when submitting a digital coverage containing the following utility markers. More information can be obtained from the *Ohio Utilities Protection Service* and *The Utility Location & Coordination Council*.

RED ----- Electric Power Lines, Cables, Conduit and Lighting Cables.

YELLOW -- Gas, Oil, Steam, Petroleum or Gasoline Materials.

ORANGE -- Communication, Alarm or Signal Lines, Cables or Conduit

BLUE ----- Water, Irrigation and Slurry Lines.

GREEN ----- Sewers and Drain Lines.

PINK ----- Temporary Survey Markings.

WHITE ----- Proposed Excavation.

SUBMISSION STANDARDS for SUBDIVISION PLATS

Needs Completed

The following rules shall be used when submitting a digital coverage containing new subdivision parcel outlines and parcel boundaries.

- 1.) At least two (2) known county control markers will be reference into the digital file.
- 2.) All bearing and distances are to be in the Ohio State Plane, North Zone 3401, NAD 1983, NGVD 1988, U.S feet.